



MSMT 413

**Pavement Macrotexture
Depth Test**

Gloria Burke, 443-386-9266

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- Why a new specification for Milling?

Need to improve the milling (grinding) on SHA pavements.

Milling equipment maintenance issues.

Scabbing, delamination issues.

Pavement has been opened to traffic longer than recommended.



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- Test to be used in conjunction with new SP 508 Milling
- Aka: Sand Patch Test
- Method to improve the quality of milling on SHA pavements
- Three types of milling: Standard, Fine and Micro
- Also can be used for Finished Pavement



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- Pavement Design will determine the type of milling required and cite it in the IFB.
- Most will be Fine Milling.
- Macrotexture testing requirement for Fine Milling will be a minimum average diameter of 10”.
- Once in all contracts, this will replace 509 Grinding.



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- MSMT 413 uses a volumetric approach of measuring pavement macrotexture: A known volume of glass beads is spread evenly over the pavement surface to form a circle, filling the surface voids with glass beads.
- The diameter of the circle is measured on four axes and the value averaged. This value is then used to calculate the mean texture depth (MTD).



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QUESTIONS?



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- http://www.dot.state.wy.us/home/engineering_technical_programs/materials--testing/materials_testing_manual/video--respecting-and-protecting-wyomings-enviromonment-1.html

